



6p2664

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit: 2664
RAKIB, et al.) Examiner: unknown
Serial No.: 09/759,842) Docket No.: TER-002.3P D5
Filed: 1/12/2001)

For: APPARATUS AND METHOD FOR TRELLIS ENCODING DATA FOR TRANSMISSION IN DIGITAL
DATA TRANSMISSION SYSTEMS

Honorable Commissioner
of Patents and Trademarks
Washington, D.C. 20231

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APR 25 2001

INFORMATION DISCLOSURE STATEMENT

Technology Center 2600

Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97(c) and § 1.98, the undersigned would like to make the following prior art references of record in the above-identified patent application. The undersigned believes that some of these references may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56.

While this Information Disclosure Statement may contain material information pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any individual reference referred to herein is prior art to the invention disclosed and claimed in the above-identified patent application.

Each reference listed herein may be accompanied by an explanation of its relevance. While this explanation is believed to generally reflect the contents of the references which the undersigned believes a reasonable examiner might consider relevant and material to the examination of the above-identified patent application, it is not intended that the examiner rely on the description as unfailingly accurate or complete.

Cited Art

Pursuant to 37 CFR §1.97, applicants are bringing to the attention of the Examiner all art cited in the parent cases 08/895,612 filed 07/16/97, 08/684,243 filed 07/19/96, 08/588,650 filed 01/19/96, 08/519,630 filed 08/25/95, and 08/760,412 filed 12/04/96.

Sixteen (16) references are cited from the Information Disclosure Statement sent to the U.S.P.T.O. On Patent Application 08/684,243 on April 19, 2001. Copies of Form PTO-1449 and the Information Disclosure Statement are attached. Copies of Form PTO-1449 and the Information Disclosure Statement are attached.

Eight (8) references are cited from the Information Disclosure Statement sent to the U.S.P.T.O. on Patent Application 08/684,243 on July 17, 2000. Copies of Form PTO-1449 and the Information Disclosure Statement are attached.

One (1) reference cited from the Information Disclosure Statement sent to the U.S.P.T.O. on Patent Application 08/684,243 on October 8, 1999. Copies of Form PTO-1449 and the Information Disclosure Statement are attached.

Seven (7) references are cited from the Information Disclosure Statement sent to the U.S.P.T.O. on Patent Application 08/684,243 on April 14, 1999. Copies of Form PTO-1449 and the Information Disclosure Statement are attached.

One (1) reference cited from the Information Disclosure Statement sent to the U.S.P.T.O. on Patent Application 08/895,612 on April 30, 1998. Copies of Form PTO-1449 and the Information Disclosure Statement are attached.

Eight (8) references are cited from the Information Disclosure Statement sent to the U.S.P.T.O. on Patent Application 08/895,612 on March 11, 1998. Copies of Form PTO-1449 and the Information Disclosure Statement are attached.

Sixty-eight (68) references are cited from the Information Disclosure Statement sent to the U.S.P.T.O. on Patent Application 08/895,612 on October 7, 1997. Copies of Form PTO-1449 and the Information Disclosure Statement are attached.

Respectfully submitted,

Ronald Craig Fish
Reg. No. 28,843
Attorney for Applicant(s)

Dated: April 21, 2001

(Date Of Deposit)

Ronald Craig Fish, President
Ronald Craig Fish a Law Corporation
Reg. No. 28,843

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DOCKET NO.: TER-002.2P



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit: 2711
RAKIB, et al.) Examiner: unknown
Serial No.: 08/684,243) Docket No.: TER-002.2P
Filed: 07/19/96)

For: APPARATUS AND METHOD FOR DIGITAL DATA TRANSMISSION USING ORTHOGONAL CODES

Honorable Commissioner
of Patents and Trademarks
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.97(c), the undersigned would like to make the following prior art references of record in the above-identified patent application. An office action has already been received but no final action or notice of allowance has been received. The undersigned believes that these references are not material to the examination of this application and in respect of which there may be no duty to disclose in accordance with 37 C.F.R. §1.56. However, since the definition of materiality under the revised rules is still subjective, these references are being submitted to the Examiner so that he can make his own judgment regarding their materiality.

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The fee required by 37 C.F.R. §1.17(p) is enclosed herewith.

Cited References

Moura, et al., U.S. Patent Re. 35,774, Filed Nov. 16, 1994, Patent Date Apr. 21, 1998.

Seth-Smith, et al., U.S. Patent 4,829,569, Filed Jul. 8, 1986, Patent Date May 9, 1989.

Yee, U.S. Patent 4,894,789, Filed Feb. 22, 1988, Patent Date Jan. 16, 1990.

Hoarty, et al., U.S. Patent 5,093,718, Filed Sep. 28, 1990, Patent Date Mar. 3, 1992.

Heffner, III, U.S. Patent 5,130,983, Filed Mar. 27, 1990, Patent Date Jul. 14, 1992.

Ballantyne, et al., U.S. Patent 5,133,079, Filed Aug. 28, 1990, Patent Date Jul. 21, 1992.

Wilson, et al., U.S. Patent 5,195,092, Filed Aug. 30, 1991, Patent Date Mar. 16, 1993.

Wheeler, et al., U.S. Patent 5,200,993, Filed May 10, 1991, Patent Date Apr. 6, 1993.

Littoral, et al., U.S. Patent 5,247,347, Filed Sep. 27, 1991, Patent Date Sep. 21, 1993.

Blahut, U.S. Patent 5,373,288, Filed Oct. 23, 1992, Patent Date Dec. 13, 1994.

Gusella, et al., U.S. Patent 5,408,465, Filed Jun. 21, 1993, Patent Date Apr. 18, 1995.

Hoarty, et al., U.S. Patent 5,550,578, Filed Oct. 6, 1994, Patent Date Aug. 27, 1996.

Safadi, U.S. Patent 5,572,517, Filed Mar. 10, 1995, Patent Date Nov. 5, 1996.

Shuen, U.S. Patent 5,572,528, Filed Mar. 20, 1995, Patent Date Nov. 5, 1996.



DOCKET NO.: IER-002.2P

PATENT

Moura, et al., U.S. Patent 5,828,655, Filed Aug. 21, 1996, Patent Date Oct. 27, 1998.

Philips, European Patent Application EP 0 767 544 A2, Filed Oct. 13, 1996, Publication Date Apr. 9, 1997.

Respectfully submitted,

Ronald Craig Fish
Reg. No. 28,843
Attorney for Applicant(s)

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(Date Of Deposit)

Ronald Craig Fish, President
Ronald Craig Fish a Law Corporation
Reg. No. 28,843



SHEET 1 OF 2

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	RECEIVED APR 25 2001 Technology Center 2600
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	Re. 35,774	Apr. 21, 1998	Moura, et al.	348	12	Nov. 16, 1994
B	4,829,569	May 9, 1989	Seth-Smith, et al.	380	10	Jul. 8, 1986
C	4,894,789	Jan. 16, 1990	Yee	364	521	Feb. 22, 1988
D	5,093,718	Mar. 3, 1992	Hoarty, et al.	358	84	Sep. 28, 1990
E	5,130,983	Jul. 14, 1992	Heffner, III	370	85.8	Mar. 27, 1990
F	5,133,079	Jul. 21, 1992	Ballantyne, et al.	455	4.1	Aug. 28, 1990
G	5,195,092	Mar. 16, 1993	Wilson, et al.	370	94.2	Aug. 30, 1991
H	5,200,993	Apr. 6, 1993	Wheeler, et al.	379	96	May 10, 1991
I	5,247,347	Sep. 21, 1993	Litteral, et al.	358	85	Sep. 27, 1991
J	5,373,288	Dec. 13, 1994	Blahut	340	825.08	Oct. 23, 1992

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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SHEET 2 OF 2

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,245
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	RECEIVED APR 25 2001 Technology Center 2600 GROUP 2711
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,408,465	Apr. 18, 1995	Gusella, et al.	370	17	Jun. 21, 1993
B	5,550,578	Aug. 27, 1996	Hoarty, et al.	348	7	Oct. 6, 1994
C	5,572,517	Nov. 5, 1996	Safadi	370	50	Mar. 10, 1995
D	5,572,528	Nov. 5, 1996	Shuen	370	85.13	Mar. 20, 1995
E	5,828,655	Oct. 27, 1998	Moura, et al.	370	236	Aug. 21, 1996
F						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
K	EP 0 767 544 A2	Apr. 9, 1997	Europe	H04B	1/707	X
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DOCKET NO.: TER-002.2P

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit: 2711
RAKIB, et al.) Examiner: unknown
Serial No.: 08/684,243) Docket No.: TER-002.2P
Filed: 07/19/96)

For: APPARATUS AND METHOD FOR DIGITAL DATA TRANSMISSION USING ORTHOGONAL CODES

Honorable Commissioner
of Patents and Trademarks
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§1.97-1.98, the undersigned would like to make the following prior art references of record in the above-identified patent application. The undersigned believes that some of these references may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. §1.56.

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DOCKET NO.: IER-002-22

PATENT

the express purpose of providing the examiner with an opportunity to perform an independent evaluation to arrive at an independent assessment of its relevance and materiality, if any, to the claimed subject matter.

Cited References

Omura, et al., U.S. Patent 5,157,686, Filed Jun. 24, 1991, Patent Date Oct. 20, 1992.

Omura, U.S. Patent 5,164,958, Filed Jul. 19, 1991, Patent Date Nov. 17, 1992.

Omura, et al., U.S. Patent 5,166,952, Filed May 24, 1990, Patent Date Nov. 24, 1992.

Omura, et al., U.S. Patent 5,253,268, Filed Jun. 24, 1991, Patent Date Oct. 12, 1993.

Horiguchi, U.S. Patent 5,737,329, Filed Apr. 12, 1996, Patent Date Apr. 7, 1998.

Arai, U.S. Patent 5,930,235, Filed Feb. 28, 1997, Patent Date Jul. 27, 1999.

Bruckert, et al., U.S. Patent 5,822,359, Filed Oct. 17, 1994, Patent Date Oct. 13, 1998.

Ishikawa, et al., U.S. Patent 5,610,911, Filed Sep. 28, 1994, Patent Date Mar. 11, 1997.

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Respectfully submitted,

Ronald C. Fish

Ronald Craig Fish
Reg. No. 28,843
Attorney for Applicant(s)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington D.C. 20231 on July 17, 2000
(Date Of Deposit)

Ronald C. Fish
Ronald Craig Fish, President
Ronald Craig Fish a Law Corporation
Reg. No. 28,843



SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	RECEIVED APR 25 2001 GPO/Technology Center 2600
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	2711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,157,686	Oct. 20, 1992	Omura, et al.	375	1	Jun. 24, 1991
B	5,164,958	Nov. 17, 1992	Omura	375	1	Jul. 19, 1991
C	5,166,952	Nov. 24, 1992	Omura, et al.	375	1	May 24, 1990
D	5,253,268	Oct. 12, 1993	Omura, et al.	375	1	Jun. 24, 1991
E	5,737,329	Apr. 7, 1998	Horiguchi	370	342	Apr. 12, 1996
F	5,930,235	Jul. 27, 1999	Arai	370	252	Feb. 28, 1997
G	5,822,359	Oct. 13, 1998	Bruckert, et al.	375	200	Oct. 17, 1994
H	5,610,911	Mar. 11, 1997	Ishikawa, et al.	370	503	Sep. 28, 1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

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DOCKET NO.: TER-002.2P

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit: 2602
RAKIB, et al.) Examiner: unknown
Serial No.: 08/684,243) Docket No.: TER-002.2P
Filed: July 19, 1996)

For: APPARATUS AND METHOD FOR DIGITAL DATA TRANSMISSION USING ORTHOGONAL CODES

Honorable Commissioner
of Patents and Trademarks
Washington, D.C. 20231

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Technology Center 2600

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§1.97-1.98, the undersigned would like to make the following prior art references of record in the above-identified patent application. The undersigned believes that these references may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. §1.56.

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DOCKET NO.: IER-002.2P

PATENT



evaluation to arrive at an independent assessment of its relevance and materiality, if any, to the claimed subject matter.

Cited Art

"A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Seki K. et al., IEICE Transactions on Communications, vol. E78-B, No. 7, 1 July 1995, pages 1002-1015.

XP000532484

Respectfully submitted,

Ronald Craig Fish
Reg. No. 28,843
Attorney for Applicant(s)

Dated: 10/8/99

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Ronald Craig Fish a Law Corporation
Reg. No. 28,843

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SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
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C						<i>APR 25 2001</i>
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
S	"A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Seki K. et al., <i>IEICE Transactions on Communications</i> , vol. E78-B, no. 7, 1 July 1995, pages 1002-1015.
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DATE CONSIDERED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit: 2602
RAKIB, et al.) Examiner: Grant, C.
Serial No.: 08/684,243) Docket No.: TER-002.2P
Filed: July 19, 1996)

For: APPARATUS AND METHOD FOR DIGITAL DATA TRANSMISSION USING ORTHOGONAL CODES

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PATENT

evaluation to arrive at an independent assessment of its relevance and materiality, if any, to the claimed subject matter.

Cited Art

Seshadri, et al., U.S. Patent 5,751,739, Patent Issued May 12, 1998, Filed Apr. 29, 1994.

Ogawa, et al., U.S. Patent 4,218,654, Patent Issued Aug. 19, 1980, Filed Feb. 21, 1979.

Nawata, U.S. Patent 5,072,445, Patent Issued Dec. 10, 1991, Filed Nov. 30, 1989.

Matsumoto, U.S. Patent 5,617,410, Patent Issued Apr. 1, 1997, Filed Mar. 15, 1995.

Marcel, U.S. Patent 5,712,982, Patent Issued Jan. 27, 1998, Filed Sep. 20, 1995.

Scott, U.S. Patent 5,745,484, Patent Issued Apr. 28, 1998, Filed Jun. 5, 1995.

Kojima, U.S. Patent 5,761,198, Patent Issued Jun. 2, 1998, Filed Sep. 22, 1995.

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Dated: 4/14/99

Respectfully submitted,

Ronald C. Fish

Ronald Craig Fish
Reg. No. 28,843
Attorney for Applicant(s)

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(Date of Deposit)

Ronald C. Fish
Ronald Craig Fish, President
Ronald Craig Fish a Law Corporation
Reg. No. 28,843



SHEET 1 OF 1

FORM PTO-1440 & TRADEMARK OFFICE
(Rev. 2-32) U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
TER-002.2P

SERIAL NO.
08/684,243

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT
RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
July 19, 1996

GROUP
2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,751,739	May 12, 1998	Seshadri, et al.	371	43	Apr. 29, 1994
B	4,218,654	Aug. 19, 1980	Ogawa, et al.	370	97	Feb. 21, 1979
C	5,072,445	Dec. 10, 1991	Nawata	370	104	Nov. 30, 1989
D	5,617,410	Apr. 1, 1997	Matsumoto	370	342	Mar. 15, 1995
E	5,712,982	Jan. 27, 1998	Marcel	395	200.17	Sep. 20, 1995
F	5,745,484	Apr. 28, 1998	Scott	370	347	Jun. 5, 1995
G	5,761,198	Jun. 2, 1998	Kojima	370	337	Sep. 22, 1995
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit: unknown
RAKIB, et al.) Examiner: unknown
Serial No.: 08/895,612) Docket No.: TER-002.3P
Filed: July 16, 1997)

For: APPARATUS AND METHOD FOR SCDMA DIGITAL DATA TRANSMISSION USING ORTHOGONAL
CODES AND HEAD END MODEM WITH NO TRACKING LOOPS

Honorable Commissioner
of Patents and Trademarks
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§1.97-1.98, the undersigned would like to make the following prior art references of record in the above-identified patent application. The undersigned believes that these references are not material to the examination of this application and in respect of which there may be no duty to disclose in accordance with 37 C.F.R. §1.56. However, since the definition of materiality under the revised rules is still subjective, these references are being submitted to the Examiner so that he can make his own judgment regarding their materiality.

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undersigned believes a reasonable examiner might consider relevant and material to the examination of the above-identified patent application, it is not intended that the examiner rely on the description as unfailingly accurate or complete. A copy of each reference is enclosed for the express purpose of providing the examiner with an opportunity to perform an independent evaluation to arrive at an independent assessment of its relevance and materiality, if any, to the claimed subject matter.

Also, the citation of the above documents shall not be construed as an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

The undersigned hereby certifies in accordance with § 1.97 that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56(c) more than three months prior to the filing of this information disclosure statement.

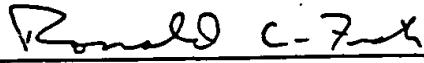
This certification does not extend to any items of information cited herein which have previously been cited in this application.

Cited Art

Giallorenzi, et al., U.S. Patent 5,499,236, Patent Issued Mar. 12, 1996, Filed Aug. 16, 1994.

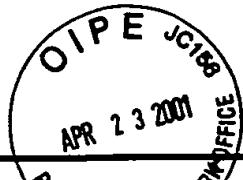
Respectfully submitted,

Dated: 4/30/97


Ronald Craig Fish
Reg. No. 28,843
Attorney for Applicant(s)

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Ronald Craig Fish, President
Ronald Craig Fish a Law Corporation
Reg. No. 28,843



SHEET 1 OF 1

FORM PTO-1449
(Rev. 2-32)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
TER-002.3P

SERIAL NO.
08/895,612

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT
RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
July 16, 1997

GROUP
unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,499,236	Mar 12, 1996	Giallorenzi, et al.	370	18	Aug 16, 1994
B						
C						
D						
E						
F						
G						
H						
I						
J						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
K						
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M						
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Q						
R						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
S	
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EXAMINER

DATE CONSIDERED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit: unknown
RAKIB, et al.) Examiner: unknown
Serial No.: 08/895,612) Docket No.: TER-002.3P
Filed: February 9, 1998)

For: APPARATUS AND METHOD FOR SCDMA DIGITAL DATA TRANSMISSION USING ORTHOGONAL
CODES AND HEAD END MODEM WITH NO TRACKING LOOPS

Honorable Commissioner
of Patents and Trademarks
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§1.97-1.98, the undersigned would like to make the following prior art references of record in the above-identified patent application. The undersigned believes that these references are not material to the examination of this application and in respect of which there may be no duty to disclose in accordance with 37 C.F.R. §1.56. However, since the definition of materiality under the revised rules is still subjective, these references are being submitted to the Examiner so that he can make his own judgment regarding their materiality.

While this Information Disclosure Statement may contain material information pursuant to 37 C.F.R. §1.56, it is not intended to constitute an admission that any individual reference referred to herein is prior art to the invention disclosed and claimed in the above-identified patent application.

Each reference listed herein may be accompanied by an explanation of its relevance. While this explanation is believed to generally reflect the contents of the references which the

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undersigned believes a reasonable examiner might consider relevant and material to the examination of the above-identified patent application, it is not intended that the examiner rely on the description as unfailingly accurate or complete. A copy of each reference is enclosed for the express purpose of providing the examiner with an opportunity to perform an independent evaluation to arrive at an independent assessment of its relevance and materiality, if any, to the claimed subject matter.

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This certification does not extend to any items of information cited herein which have previously been cited in this application.

Cited Art

Majeti, et al., U.S. Patent 5,488,412, Patent Issued Jan. 30, 1996, Filed Mar. 31, 1994;

Majeti, et al., U.S. Patent 5,512,935, Patent Issued Apr. 30, 1996, Filed Mar. 31, 1994;

Majeti, et al., U.S. Patent 5,534,913, Patent Issued Jul. 9, 1996, Filed Mar. 31, 1994;

Moura, et al., U.S. Patent 5,586,121, Patent Issued Dec. 17, 1996, Filed Apr. 21, 1995;

Kawano, et al., U.S. Patent 5,594,872, Patent Issued Jan. 14, 1997, Filed Apr. 26, 1994;

Carr, et al., U.S. Patent 5,608,446, Patent Issued Mar. 4, 1997, Filed May 9, 1995;

Ulm, et al., U.S. Patent 5,608,728, Patent Issued Mar. 4, 1997, Filed Apr. 13, 1995;

Taylor, et al., U.S. Patent 5,619,531, Patent Issued Apr. 8, 1997, Filed Nov. 14, 1994.

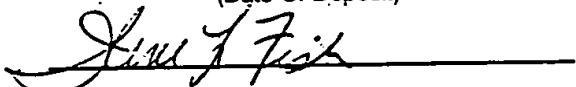
Respectfully submitted,

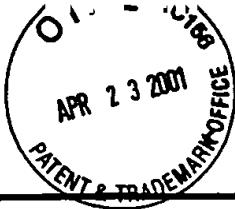


Ronald Craig Fish
Reg. No. 28,843
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SHEET 1 OF 1

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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE February 9, 1998	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	A 5,488,412	Jan 30, 1996	Majeti, et al.	348	10	Mar 31, 1994
	B 5,512,935	Apr 30, 1996	Majeti, et al.	348	9	Mar 31, 1994
	C 5,534,913	Jul 9, 1996	Majeti, et al.	348	7	Mar 31, 1994
	D 5,586,121	Dec 17, 1996	Moura, et al.	370	404	Apr 21, 1995
	E 5,594,872	Jan 14, 1997	Kawano, et al.	395	200.15	Apr 26, 1994
	F 5,608,446	Mar 4, 1997	Carr, et al.	348	6	May 9, 1995
	G 5,608,728	Mar 4, 1997	Ulm, et al.	370	488	Apr 13, 1995
	H 5,619,531	Apr 8, 1997	Taylor, et al.	375	222	Nov 14, 1994
	I					
	J					

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RAKIB, et al.) Examiner: unknown
Serial No.: 08/895,612) Docket No.: TER-002.3P
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on the description as unfailingly accurate or complete. A copy of each reference is enclosed (except for references previously submitted in earlier applications relied upon in this application for priority under 35 USC Section 120) for the express purpose of providing the examiner with an opportunity to perform an independent evaluation to arrive at an independent assessment of its relevance and materiality, if any, to the claimed subject matter.

Pursuant to the provisions of 37 CFR 1.98(d), copies of references previously submitted in the following earlier applications relied upon for priority under 35 USC Section 120 are not submitted:

08/588,650 Filed 01/19/96
08/684,243 Filed 08/25/95
08/519,630 Filed 08/25/95
08/616,071 Filed 03/14/96
08/760,412 Filed 12/04/96

Fukasawa, et al. U.S. Patent 5,463,660 Filed August 3, 1994, Patent Date October 31, 1995;

Fukasawa, et al. U.S. Patent 5,442,662 Filed June 16, 1994, Patent Date August 15, 1995;

Lee, U.S. Patent 5,414,699 Filed September 27, 1993, Patent Date May 9, 1995;

Lee, U.S. Patent 5,345,472 Filed August 2, 1993, Patent Date September 6, 1994;

Lee, et al. U.S. Patent 5,297,162 Filed June 4, 1993, Patent Date March 22, 1994;

De Gaudenzo, et al. U.S. Patent 5,327,455 Filed August 28, 1992, Patent Date July 5, 1994;

Bartholomew, et al. U.S. Patent 5,319,634 Filed October 7, 1991, Patent Date June 7, 1994;

Gilhausen, et al. U.S. Patent 5,416,797 Filed January 24, 1992, Patent Date May 16, 1995;

Citta, U.S. Patent 4,554,579 Filed September 6, 1984, Patent Date November 19, 1985;

Citta, U.S. Patent 4,553,161 Filed September 6, 1984, Patent Date November 22, 1985;

Bestler, et al. U.S. Patent 5,231,664 Filed November 14, 1991, Patent Date July 27, 1993;

Dent, U.S. Patent 5,239,557 Filed April 10, 1992, Patent Date August 24, 1993;

Gutleber, U.S. Patent 4,460,992 Filed November 4, 1982, Patent Date July 17, 1984

Schilling, et al. U.S. Patent 5,363,403 Filed April 22, 1993, Patent Date November 8, 1994;

Gutleber, U.S. Patent 4,470,138 Filed November 4, 1982, Patent Date September 4, 1984;

Chen, et al. U.S. Patent 5,394,391 Filed April 3, 1992, Patent Date February 28, 1995;

Gitlin, et al. U.S. Patent 5,442,625 Filed May 13, 1994, Patent Date August 15, 1995;

Wolf, U.S. Patent 5,233,630 Filed May 3, 1991, Patent Date August 3, 1993;

Bione, et al. U.S. Patent 4,757,460 Filed June 14, 1985, Patent Date July 12, 1988;

Omura, U.S. Patent 5,235,615 Filed July 21, 1992, Patent Date August 10, 1993;

Turban, U.S. Patent 5,373,502 Filed March 25, 1993, Patent Date December 13, 1994;

Lee, et al. U.S. Patent 5,353,300 Filed June 7, 1993, Patent Date October 4, 1994;

Viterbi, U.S. Patent 5,193,094 Filed March 7, 1990, Patent Date March 9, 1993;

Lee, et al. U.S. Patent 5,359,624 Filed June 7, 1993, Patent Date October 25, 1994;

Gilhousen, et al. U.S. Patent 5,309,474 Filed March 27, 1992, Patent Date May 3, 1994;

Gilhousen, et al. U.S. Patent 5,280,472 Filed March 9, 1992, Patent Date January 18, 1994;

Kirkman, et al. U.S. Patent 4,773,066 Filed April 15, 1986, Patent Date September 20, 1988;

Pidgeon, Jr. et al., U.S. Patent 4,912,721, Filed Apr. 29, 1988, Patent Date Mar. 27, 1990;

This important patent describes a system for sending digital data on a cable TV system using direct sequence code division multiple access. The patent discloses synchronized generation of pseudorandom noise sequences which are multiplied by the data to be spread in an exclusive OR gate. The result is then multiplied by a carrier in another exclusive OR gate. A microprocessor controls the power output of the final stage power amplifier and turns the carrier oscillator on and off and controls generation of the PN sequence. The microprocessor also supplies the data to be spread to the first exclusive OR gate.

Beyers, II et al., U.S. Patent 5,235,619, Filed March 20, 1990, Patent Date Aug. 10, 1993:
Teaches a system for upstream communication from multiple users on a cable TV system to a billing computer process at the head end using code division multiple access. Billing information for events purchased by a subscriber is collected in this manner. Upstream data is sent by selecting a plurality of data channels over which to send upstream data, selecting a plurality of times to transmit at least one of which is random for transmitting over the plurality of channels, and transmitting the data message over each of the plurality of data channels at the transmit times.

Viterbi, et al., U.S. Patent 5,442,627, Patent Issued Aug. 15, 1995, Filed Jun. 24, 1993:

Rice, U.S. Patent 5,452,328, Patent Issued Sep. 19, 1995, Filed Jul. 30, 1993:

Vander Mey, et al., U.S. Patent 5,090,024, Patent Issued Feb. 18, 1992, Filed Aug. 23, 1989:

Lien, et al., U.S. Patent 4,933,930, Patent Issued Jun. 12, 1990, Filed Oct. 31, 1988:

Bremer et al., U.S. Patent 5,448,555, Patent Issued Sep. 5, 1995, Filed Jun. 14, 1993:

Charas et al., U.S. Patent 5,404,570, Patent Issued Apr. 4, 1995, Filed Nov. 23, 1992:

Partridge, III, U.S. Patent 5,440,585, Patent Issued Aug. 8, 1995, Filed Jun. 14, 1993:

Nienaber, U.S. Patent 4,723,164, Patent Issued Feb. 2, 1988, Filed Jun. 28, 1985:

Schaffner et al., U.S. Patent 5,418,813, Patent Issued May 23, 1995, Filed Dec. 6, 1993:

Weaver, U.S. Patent 4,926,130, Patent Issued May 15, 1990, Filed Jan. 19, 1988:

Bruckert, U.S. Patent 5,224,122, Patent Issued Jun. 29, 1993, Filed Jun. 29, 1992:

Bruckert, U.S. Patent 5,325,394, Patent Issued Jun. 28, 1994, Filed Mar. 3, 1993:

Lett, PCT International App. No. PCT/US95/04329, Published Oct. 26, 1995:

Jelinek, PCT International App. No. PCT/US95/10899, Published Mar. 21, 1996:

Westlaw Dialog Search.

Manno, U.S. Patent 4,811,365, Patent Issued Mar. 7, 1989, Filed Nov. 7, 1986:

Baran, U.S. Patent 5,425,027, Patent Issued Jun. 13, 1995, Filed Jan. 4, 1993;
Eizenhofer, et al., U.S. Patent 4,688,210, Patent Issued Aug. 18, 1987, Filed Mar. 18, 1986;
Dent, U.S. Patent 5,539,730, Patent Issued Jul. 23, 1996, Filed Jan. 11, 1994;
Leppanen, U.S. Patent 5,533,013, Patent Issued Jul. 2, 1996, Filed Apr. 11, 1995;
Honig et al., U.S. Patent 5,481,533, Patent Issued Jan. 2, 1996, Filed May 12, 1994;
Rohani, et al., U.S. Patent 5,390,166, Patent Issued Feb. 14, 1995, Filed Jul. 14, 1993;
Kotzin, et al., U.S. Patent 5,363,404, Patent Issued Nov. 8, 1994, Filed Jul. 13, 1993;
Marston, U.S. Patent 5,345,439, Patent Issued Sep. 6, 1994, Filed Apr. 23, 1993;
Moura, et al., U.S. Patent 5,347,304, Patent Issued Sep. 13, 1994, Filed Jul. 28, 1993;
Ricketts, U.S. Patent 4,475,208, Patent Issued Oct. 2, 1984, Filed Jan. 18, 1982;
Kubota, et al., U.S. Patent 4,635,274, Patent Issued Jan. 6, 1987, Filed Apr. 25, 1985,
Bustini, et al., U.S. Patent 5,313,454, Patent Issued May 17, 1994, Filed Apr. 1, 1992;
Longston, et al., U.S. Patent 5,467,342, Patent Issued Nov. 14, 1995, Filed Oct. 5, 1994;
English, et al., U.S. Patent 5,305,308, Patent Issued Apr. 19, 1994, Filed Oct. 29, 1992;
Schmidt, U.S. Patent 4,748,681, Patent Issued May 31, 1998, Filed Apr. 28, 1986;
Gudmundson, et al., U.S. Patent 5,295,152, Patent Issued Mar. 15, 1994, Filed Apr. 10, 1992;
Snell et al., U.S. Patent 5,442,700, Patent Issued Aug. 15, 1995, Filed Sep. 22, 1994;
Hoarty, et al., U.S. Patent 5,557,316, Patent Issued Sep. 17, 1996, Filed Sep. 29, 1994;
Miller, U.S. Patent 5,511,067, Patent Issued Apr. 23, 1996, Filed Jun. 17, 1994;
Su, et al., U.S. Patent 5,398,258, Patent Issued Mar. 14, 1995, Filed Oct. 26, 1993,
Giallorenzi, et al., U.S. Patent 5,583,853, Patent Issued Dec. 10, 1996, Filed Nov. 28, 1995;
R. De Gaudenzi, et al., "Performance Evaluation of Quasi-Synchronous Code Division Multiple Access (QS-CDMA) for Satellite Mobile Systems," GLOBECOM '90: IEEE Global

Telecommunications Conference, 1800-1804:

R. Lupas, et al., "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels," IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136,

Respectfully submitted,

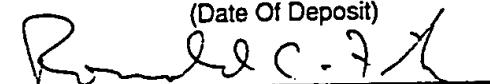


Dated: 7 Oct 97

Ronald Craig Fish
Reg. No. 28,843
Attorney for Applicant(s)

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D.C. 20231 on 7 Oct 97

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Ronald Craig Fish, President
Ronald Craig Fish a Law Corporation
Reg. No. 28,843



SHEET 1 OF 4

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,442,627	Aug. 15, 1995	Viterbi, et al.	370	22	Jun. 24, 1993
B	5,452,328	Sep. 19, 1995	Rice	375	210	Jul. 30, 1993
C	5,090,024	Feb. 18, 1992	Vander Mey, et al.	375	1	Aug. 23, 1989
D	4,933,930	Jun. 12, 1990	Lien et al.	370	18	Oct. 31, 1988
E	5,448,555	Sep. 5, 1995	Bremer et al.	370	20	Jun. 14, 1993
F	5,404,570	Apr. 4, 1995	Charas et al.	455	22	Nov. 23, 1992
G	5,440,585	Aug. 8, 1995	Partridge, III	375	261	Jun. 14, 1993
H	4,723,164	Feb. 2, 1988	Nienaber	358	148	Jun. 28, 1985
I	5,418,813	May 23, 1995	Schaffner et al.	375	205	Dec. 6, 1993
J	4,926,130	May 15, 1990	Weaver	328	14	Jan. 19, 1988
K	5,224,122	Jun. 29, 1993	Bruckert	375	1	Jun. 29, 1992
L	5,325,394	Jun. 28, 1994	Bruckert	375	1	Mar. 3, 1993
M	4,773,066	Sep. 20, 1988	Kirkman	370	85	Apr. 15, 1986
N	4,912,721	Mar. 27, 1990	Pidgeon Jr., et al.	375	1	Apr. 29, 1988
O	5,235,619	Aug. 10, 1993	Beyers, II et al.	375	38	Mar. 20, 1990

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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P	PCT/US95/10899	Mar. 21, 1996	PCT			X
Q	PCT/US95/04329	Oct. 26, 1995	PCT			X
R						
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL				APR 25 2001
T	Westlaw Dialog Search			Technology Center 2600
U	R. De Gaudenzi et al., "Performance Evaluation of Quasi-Synchronous Code Division Multiple Access (QS-CDMA) for Satellite Mobile Systems," GLOBECOM '90: IEEE Global Telecommunications Conference, 1800-1804. (04/1990)			

EXAMINER

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



SHEET 2 OF 4

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	4,811,365	Mar 7, 1989	Manno	375	107	Nov 7, 1986
B	5,425,027	Jun 13, 1995	Baran	370	69.1	Jan 4, 1993
C	4,688,210	Aug 18, 1987	Eizenhofer, et al.	370	335	Mar 18, 1986
D	5,539,730	Jul 23, 1996	Dent	370	320	Jan 11, 1994
E	5,533,013	Jul 2, 1996	Leppanen	370	206	Apr 11, 1995
F	5,481,533	Jan 2, 1996	Honig, et al.	375	206	May 12, 1994
G	5,390,166	Feb 14, 1995	Rohani, et al.	370	335	Jul 14, 1993
H	5,363,404	Nov 8, 1994	Kotzin, et al.	370	352	Jul 13, 1993
I	5,345,439	Sep 6, 1994	Marston	370	18	Apr 23, 1993
J	5,347,304	Sep 13, 1994	Moura, et al.	348	12	Jul 28, 1993
K	4,475,208	Oct 2, 1984	Ricketts	375	1	Jan 18, 1982
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N	5,442,662	Aug. 15, 1995	Fukasawa, et al.	375	205	Jun. 16, 1994
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EXAMINER INITIAL	Technology Center 2600	
T	R. Lupas et al., "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels," IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136. (01/1989)	
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C	5,327,455	Jul. 5, 1994	De Gaudenzi, et al.	375	1	Mar. 18, 1993
D	5,319,634	Jun. 7, 1994	Bartholomew, et al.	370	18	Oct. 7, 1991
E	5,416,797	May 16, 1995	Gilhousen, et al.	375	705	Jan. 24, 1992
F	4,554,579	Nov. 19, 1985	Citta	358	86	Sep. 6, 1984
G	4,553,161	Nov. 12, 1985	Citta	358	86	Sep. 6, 1984
H	5,231,664	Jul. 27, 1993	Bestler, et al.	380	20	Nov. 14, 1991
I	5,239,557	Aug. 24, 1993	Dent	371	1	Apr. 10, 1992
J	4,460,992	Jul. 17, 1984	Gutleber	370	19	Nov. 4, 1982
K	5,363,403	Nov. 8, 1994	Schilling, et al.	375	1	Apr. 22, 1993
L	4,470,138	Sep. 4, 1984	Gutleber	370	18	Nov. 4, 1982
M	5,394,391	Feb. 28, 1995	Chen, et al.	370	18	Oct. 15, 1992
N	5,442,625	Aug. 15, 1995	Gitlin, et al.	370	18	May 13, 1994
O	5,233,630	Aug. 3, 1993	Wolf	375	67	May 3, 1991
P	4,757,460	Jul. 12, 1988	Bione, et al.	364	514	Jun. 14, 1985
Q	5,235,615	Aug. 10, 1993	Omura	375	1	Jul. 21, 1992
R	5,373,502	Dec. 13, 1994	Turban	370	18	Mar. 25, 1993
S	5,353,300	Oct. 4, 1994	Lee, et al.	375	1	Jun. 7, 1993
T	5,193,094	Mar. 9, 1993	Viterbi	371	43	Mar. 7, 1990
U	5,359,624	Oct. 25, 1994	Lee, et al.	375	1	Jun. 7, 1993
V	5,309,474	May 3, 1994	Gilhousen, et al.	375	1	Mar. 27, 1992
W	5,280,472	Jan. 18, 1994	Gilhousen, et al.	370	18	Mar. 9, 1992
X	5,313,454	May 17, 1994	Bustini, et al.	370	13	Apr. 1, 1992
Y	5,467,342	Nov. 14, 1995	Longston, et al.	370	17	Oct. 5, 1994
Z	5,305,308	Apr. 19, 1994	English, et al.	370	32.1	Oct. 29, 1992

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SHEET 4 OF 4

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	4,748,681	May 31, 1998	Schmidt	455	33	Apr. 28, 1986
B	5,295,152	Mar. 15, 1994	Gudmundson, et al.	375	1	Apr. 10, 1992
C	5,442,700	Aug. 15, 1995	Snell, et al.	380	15	Sep. 22, 1994
D	5,557,316	Sep. 17, 1996	Hoarty, et al.	348	7	Sep. 29, 1994
E	5,511,067	Apr. 23, 1996	Miller	370	18	Jun. 17, 1994
F	5,398,258	Mar. 14, 1995	Su, et al.	375	200	Oct. 26, 1993
G	5,583,853	12/10/1996	Giallorenzi, et al.	370	441	11/28/95
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